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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,683	09/18/2003	Hiroaki Tanizaki	09792909-5673	4074	
26263	7590 06/08/2006		EXAM	EXAMINER	
SONNENSCHEIN NATH & ROSENTHAL LLP			WEINER, I	WEINER, LAURA S	
P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606-1080			1745		
			DATE MAILED: 06/08/2006	DATE MAILED: 06/08/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Summary		10/664,683	TANIZAKI ET AL.	
		Examiner	Art Unit	
		Laura S. Weiner	1745	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. or period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Since this application is in condition for allowar	action is non-final. nce except for formal matters, pro		
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Dispositi	ion of Claims			
5) □ 6) ⊠ 7) □ 8) □ Applicati	Claim(s) 1-18 is/are pending in the application.  4a) Of the above claim(s) 1-9 is/are withdrawn to Claim(s) is/are allowed.  Claim(s) 10-18 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction.	from consideration.  relection requirement.  r.  epted or b) □ objected to by the Edrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
11)	The oath or declaration is objected to by the Ex		• •	
Priority u	ınder 35 U.S.C. § 119			
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
2)  Notice 3)  Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa		

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### DETAILED ACTION

#### Election/Restrictions

- 1. Applicant's election of Group III, newly added claims 10-18 in the reply filed on 5-3-06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 1-9 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 5-3-06.

## Claim Rejections - 35 USC § 102

3. Claims 10, 12-14, 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Kajiura et al. (JP 2001143701, translation and abstracts).

Kajiura et al. teaches in the abstract of page 13 and page 2 of translation, a battery comprising an anode containing a Li alloying alloy phase and a Li non-alloying phases. The alloying phase is preferably CoSn, CoSn2, Co3Sn2, Ni3Sn4, Ni3Sn2 and/or Ni3Sn and the non-alloying phase is Co3SnC.7, Co2C, Co3C and/or Ni3C. Kajiura et al. teaches on page 4, [0041-0042], that the negative electrode comprises Co powder, Sn powder and graphite powder. Kajiura et al. teaches on page 5, [0056], that CoSn which is the alloy phase alloyed with Li according to an X diffraction in the complex metallic material produced with the sample 5, and CoSn2 and Co3Sn2, etc.

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Kajiura et al. teaches on pages 2-3, [0024-0028], that the positive active material has the formula LiMxO2.

## Claim Rejections - 35 USC § 103

4. Claims 11 and 15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over by Kajiura et al. (JP 2001143701, translation and abstracts).

Kajiura et al. teaches in the abstract of page 13 and page 2 of translation, a battery comprising an anode containing a Li alloying alloy phase and a Li non-alloying phases. The alloying phase is preferably CoSn, CoSn2, Co3Sn2, Ni3Sn4, Ni3Sn2 and/or Ni3Sn and the non-alloying phase is Co3SnC.7, Co2C, Co3C and/or Ni3C. Kajiura et al. teaches on page 4, [0041-0042], that the negative electrode comprises Co powder, Sn powder and graphite powder. Kajiura et al. teaches on page 5, [0056], that CoSn which is the alloy phase alloyed with Li according to an X diffraction in the complex metallic material produced with the sample 5, and CoSn2 and Co3Sn2, etc.

In the event any differences can be shown for the product of the product by process claims 11 and 15, as opposed to the product taught by Kajiura et al., such differences would have been obvious to one of ordinary skill in the art as a routine modification of the product in the absence of a showing of unexpected results. *In re Thrope 227 USPQ 964; (Fed. Cir. 1985)*.

With respect to the product by process claims 11 and 15, the determination of patentability is based upon the product itself not upon the method of its production. *In* 

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re Thrope 227 USPQ 964; In re Brown 173 USPQ 685; In re Bridgeford 149 USPQ 55; In re Wertheim 191 USPQ 90. Any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the Examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the Applicants to establish that their product is patentably distinct. In re Brown 173 USPQ 685 and In re Fessmann 180 USPQ 324.

5. Claims 10, 12-14, 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Kajiura et al. (JP 2001143701, translation and abstracts). translation and abstracts).

Kajiura et al. teaches in the abstract of page 13 and page 2 of translation, a battery comprising an anode containing a Li alloying alloy phase and a Li non-alloying phases. The alloying phase is preferably CoSn, CoSn2, Co3Sn2, Ni3Sn4, Ni3Sn2 and/or Ni3Sn and the non-alloying phase is Co3SnC.7, Co2C, Co3C and/or Ni3C. Kajiura et al. teaches on page 4, [0041-0042], that the negative electrode comprises Co powder. Sn powder and graphite powder.

Kajiura et al. teaches the claimed invention as explained above except does not specifically specify that the anode comprises only Sn. CoSn2. CoSn and Co3Sn2.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have present Sn, CoSn2, CoSn and Co3Sn2 in the anode material taught by Kajiura et al. because it is prima facie obvious to combine two

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compositions each of which is taught by prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose. See *In re Kerkhoven, 205 USPQ 1069; In re Susi, 169 USPQ 423.* 

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571/272-1000.

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June 6, 2006